

**Appendix A. System Check Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D750-EX-Head

**DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 42.488$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(9.7, 9.7, 9.7); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.49 W/kg

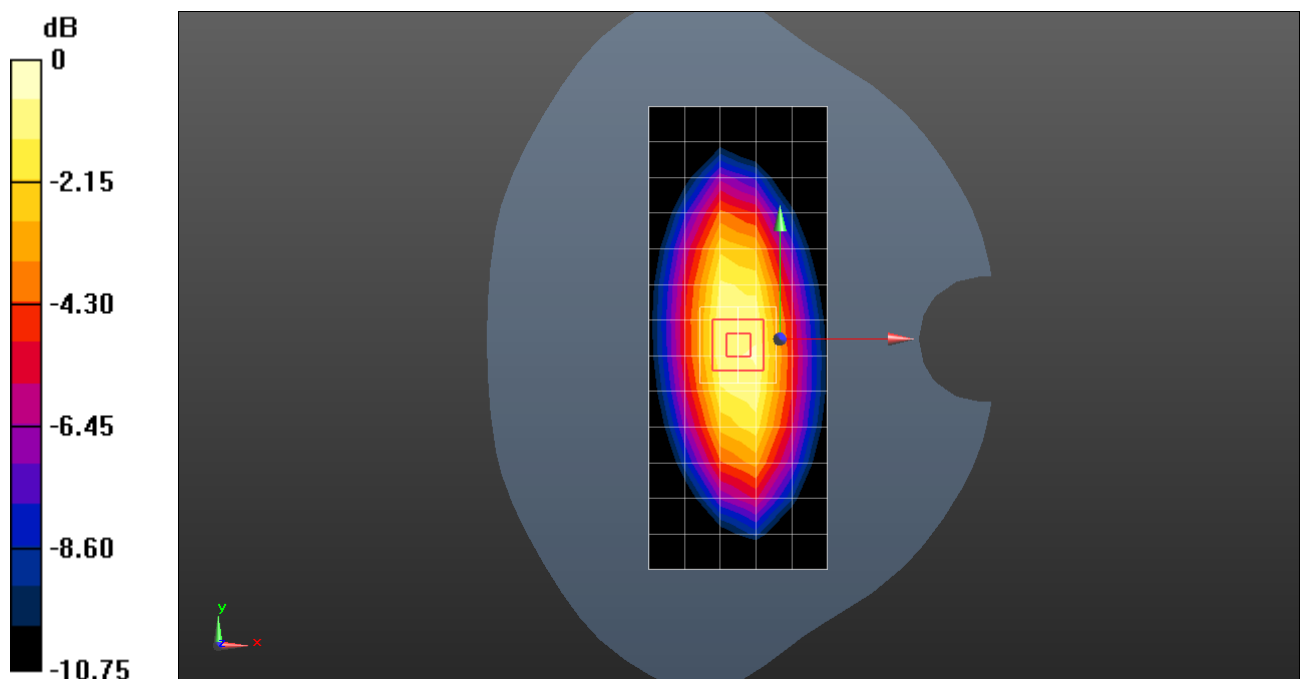
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 50.94 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.23 W/kg

**SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.41 W/kg**

Maximum value of SAR (measured) = 2.88 W/kg



0 dB = 2.88 W/kg = 4.59 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D750-EX-Body

**DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 54.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(9.03, 9.03, 9.03); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.75 W/kg

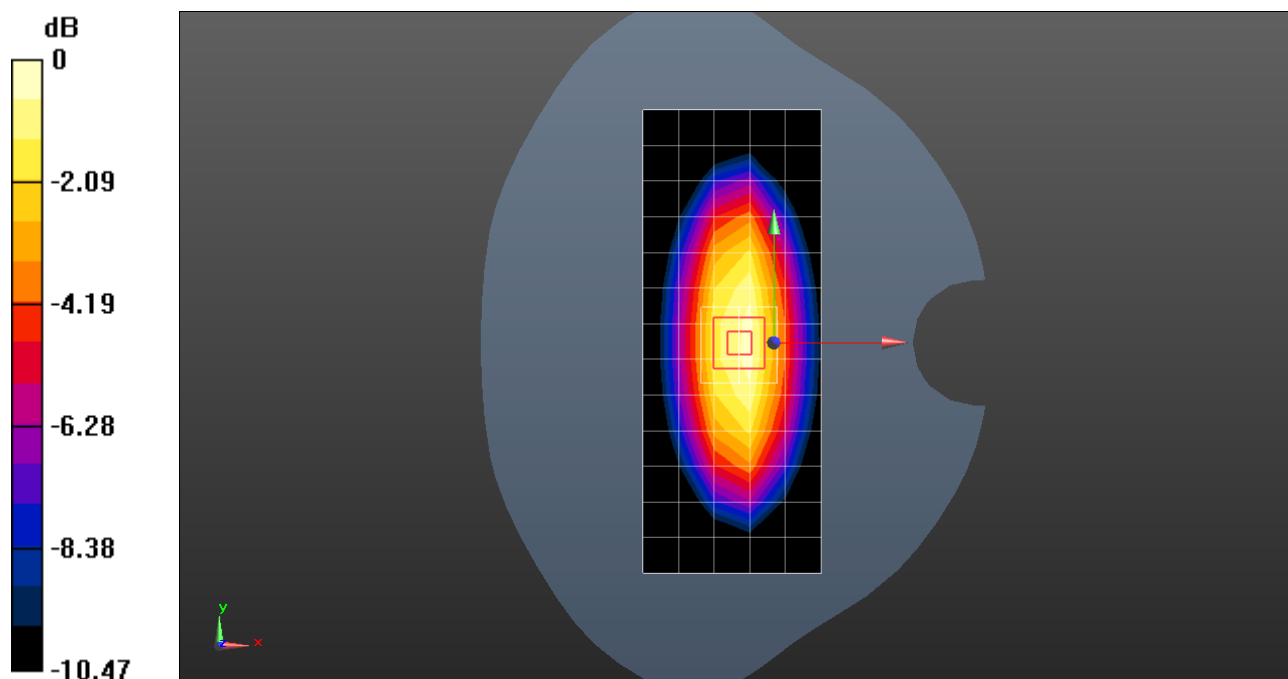
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 49.20 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.40 W/kg

**SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.46 W/kg**

Maximum value of SAR (measured) = 3.00 W/kg



0 dB = 3.00 W/kg = 4.77 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-ES-Head

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.916$  S/m;  $\epsilon_r = 40.282$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.68, 6.68, 6.68); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.69 W/kg

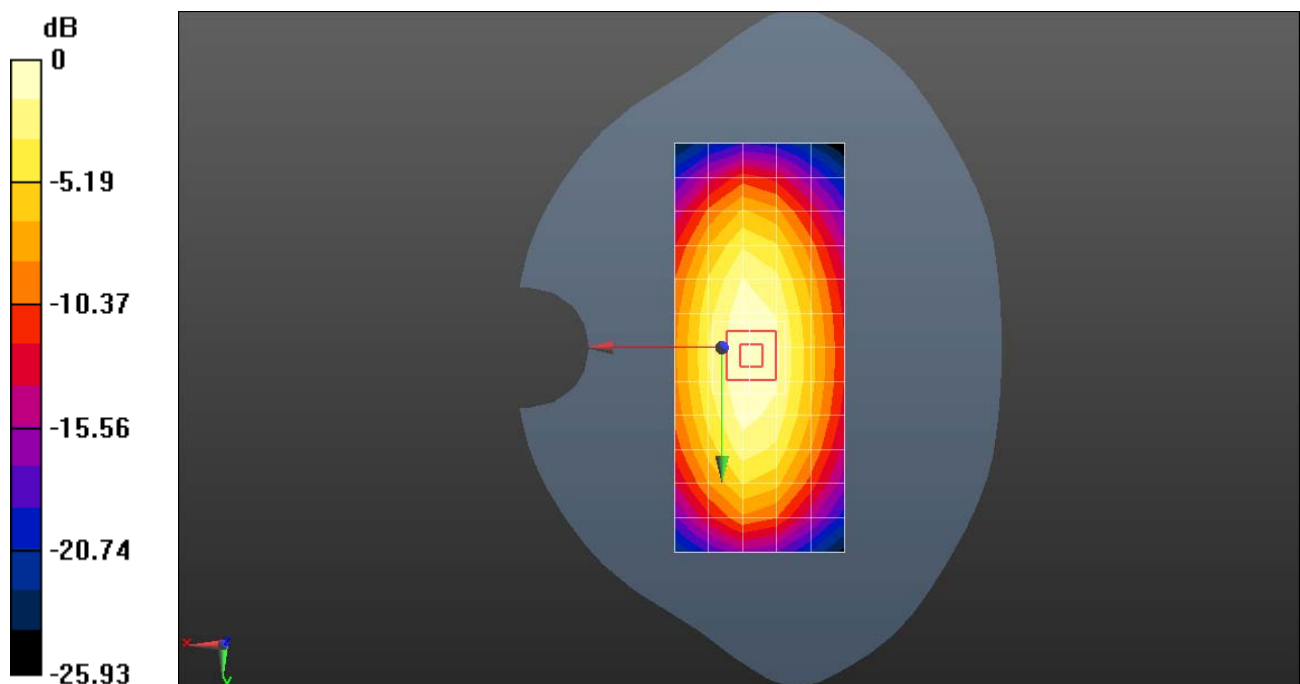
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 56.36 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.59 W/kg

**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.54 W/kg**

Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.69 W/kg = 4.30 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D835-ES-Head

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.918$  S/m;  $\epsilon_r = 40.012$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.68, 6.68, 6.68); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.59 W/kg

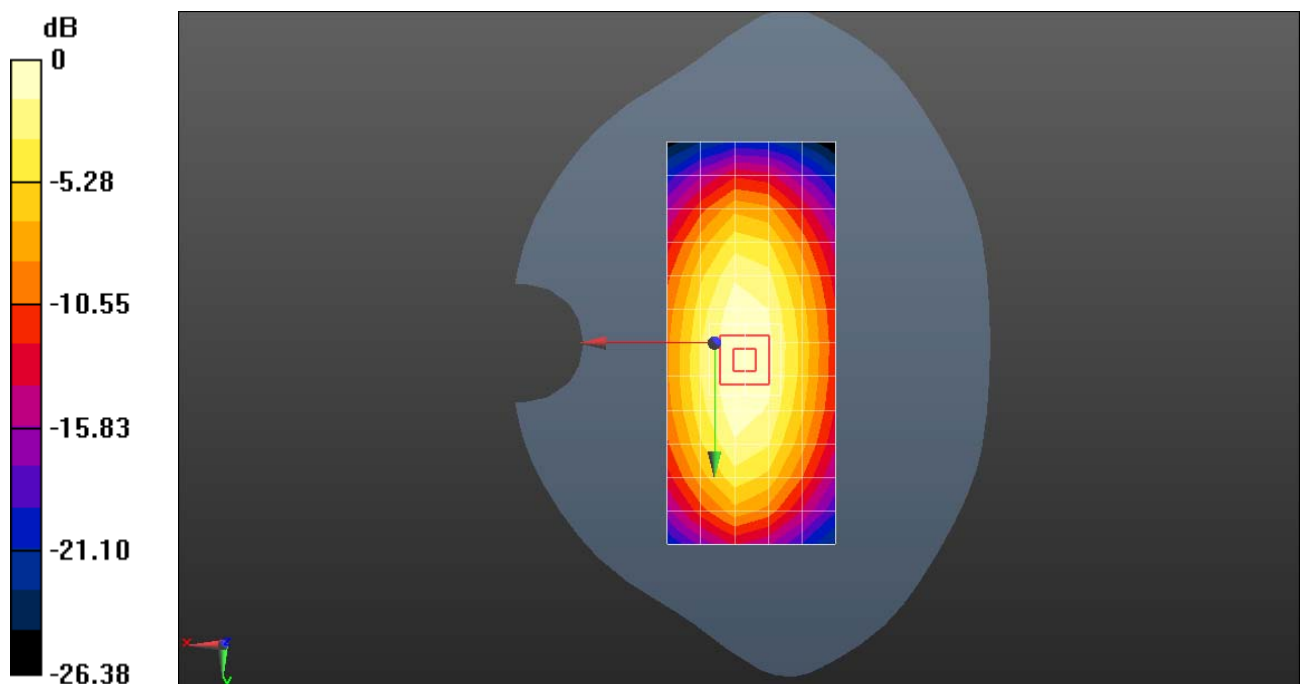
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 55.39 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.57 W/kg

**SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.52 W/kg**

Maximum value of SAR (measured) = 2.79 W/kg



0 dB = 2.59 W/kg = 4.13 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-EX-Head

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 42.16$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(8.86, 8.86, 8.86); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.69 W/kg

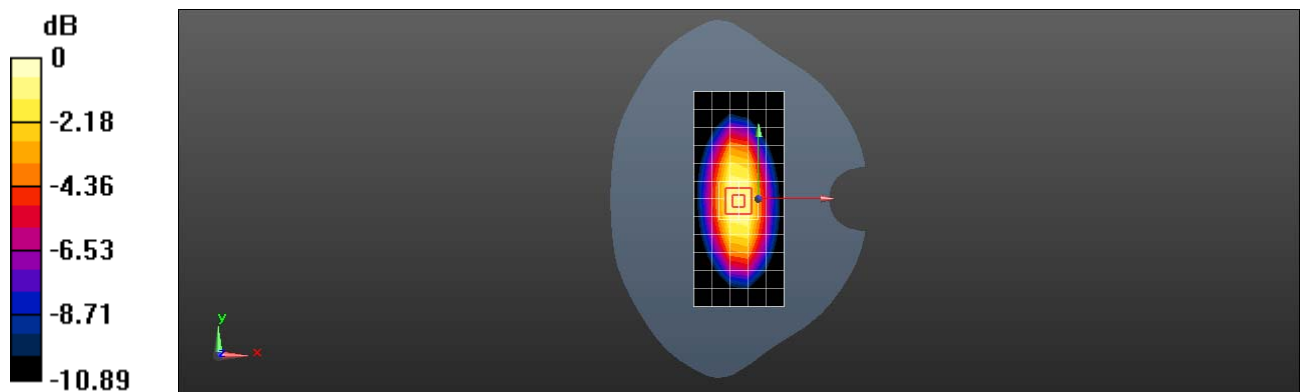
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 52.29 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.60 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.53 W/kg**

Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.18 W/kg = 5.02 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### System Performance Check-D835-ES-Body

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.995$  S/m;  $\epsilon_r = 54.868$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.65 W/kg

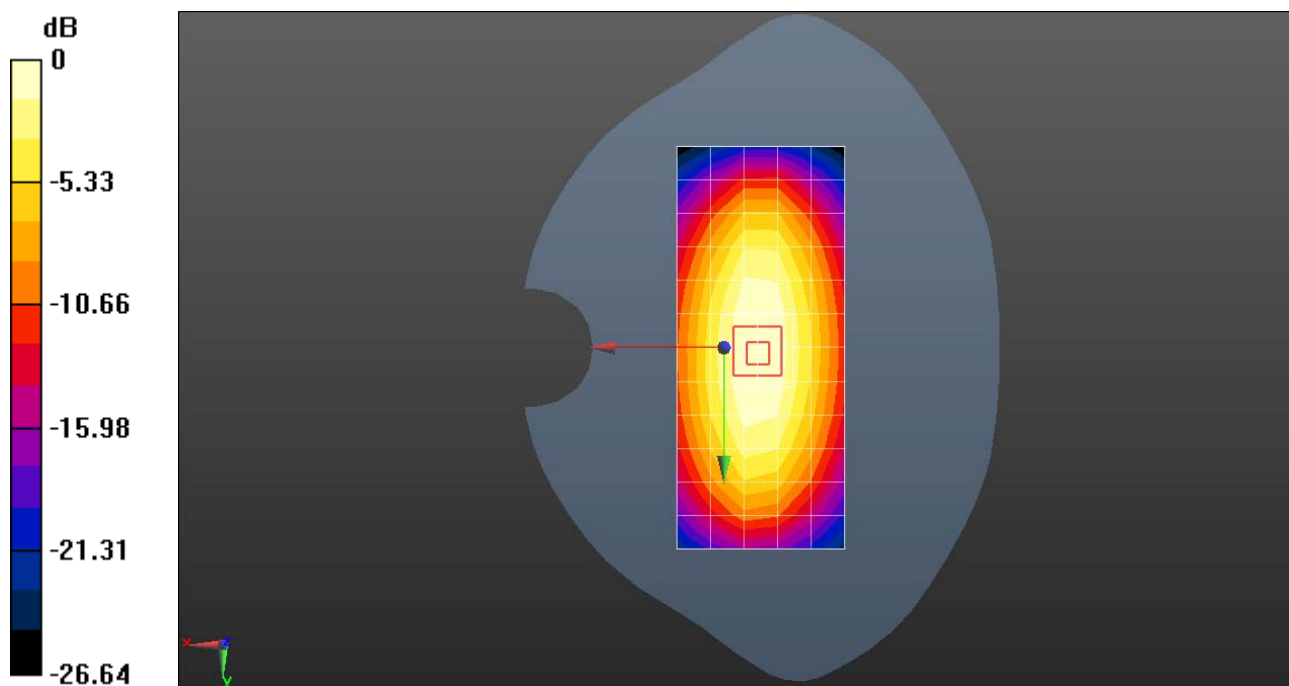
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 53.13 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.77 W/kg

**SAR(1 g) = 2.56 W/kg; SAR(10 g) = 1.68 W/kg**

Maximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.65 W/kg = 4.23 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D835-EX-Body

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.989$  S/m;  $\epsilon_r = 54.037$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(8.94, 8.94, 8.94); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 3.03 W/kg

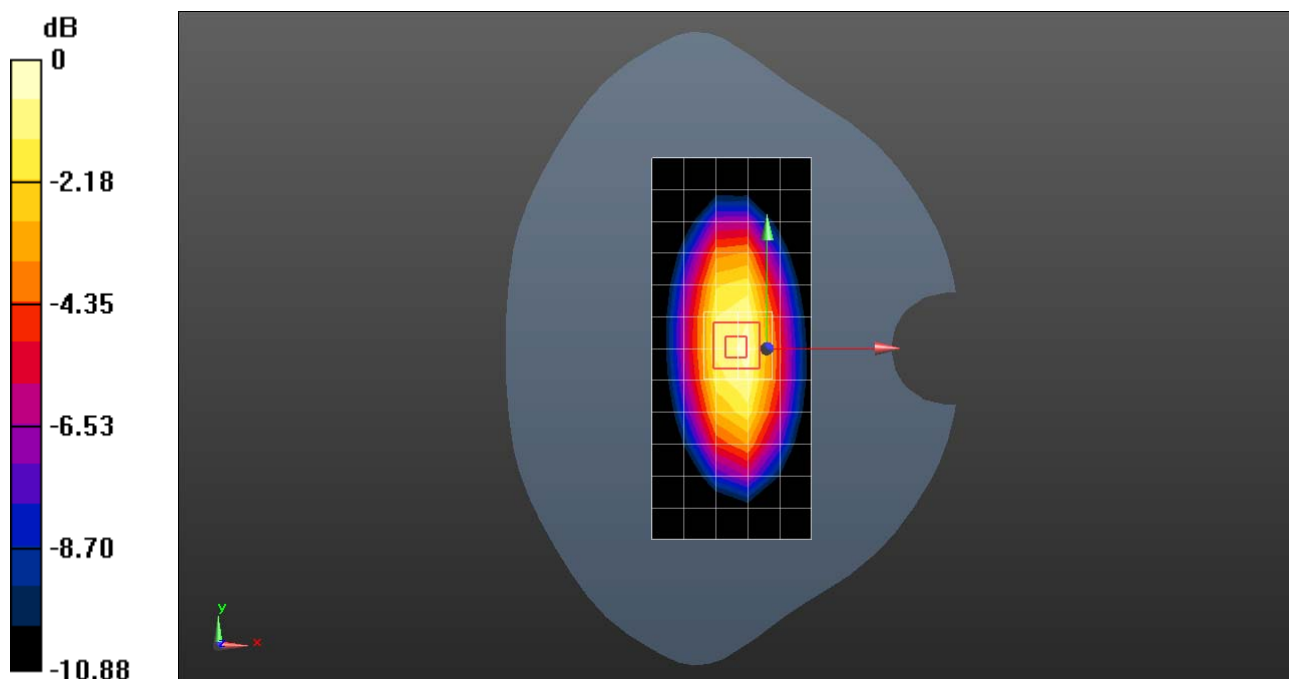
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 51.37 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.75 W/kg

**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.62 W/kg**

Maximum value of SAR (measured) = 3.32 W/kg



0 dB = 3.32 W/kg = 5.21 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-ES-Body

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.01$  S/m;  $\epsilon_r = 54.652$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.59 W/kg

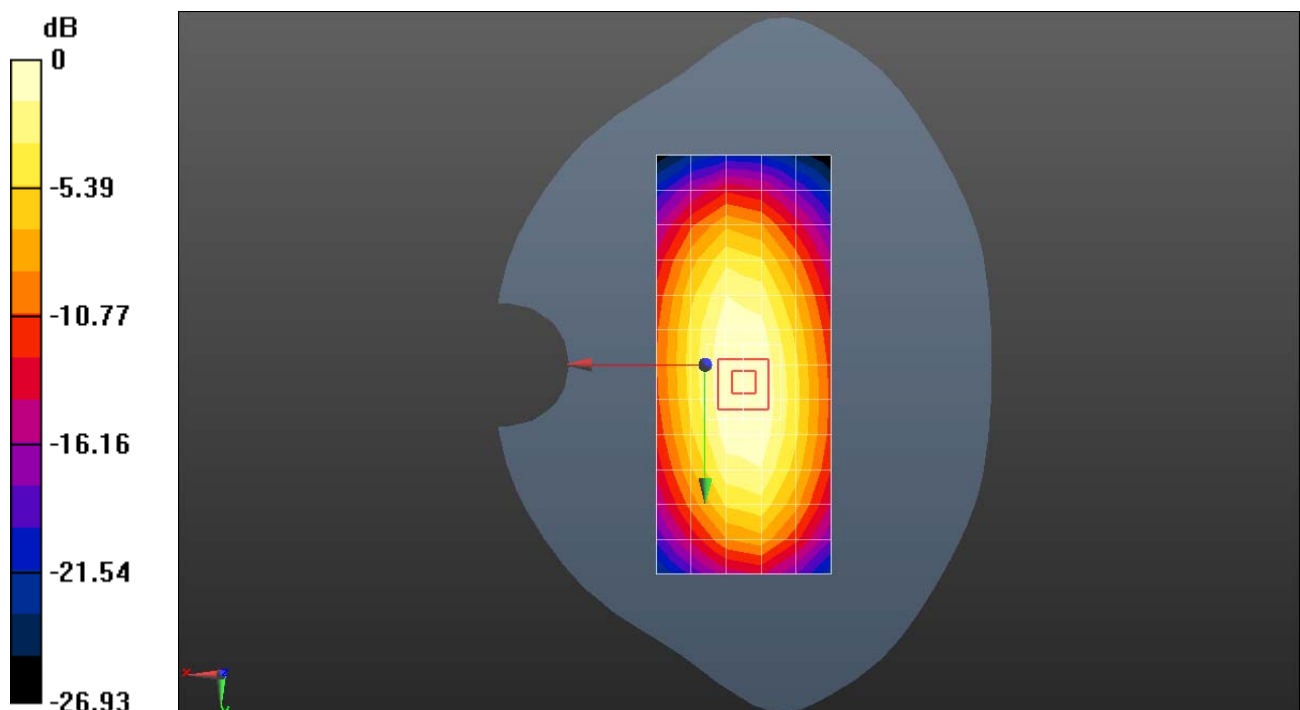
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 52.60 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.66 W/kg

**SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.66 W/kg**

Maximum value of SAR (measured) = 2.94 W/kg



0 dB = 2.59 W/kg = 4.13 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-ES-Head

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 39.334$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.58, 5.58, 5.58); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 9.29 W/kg

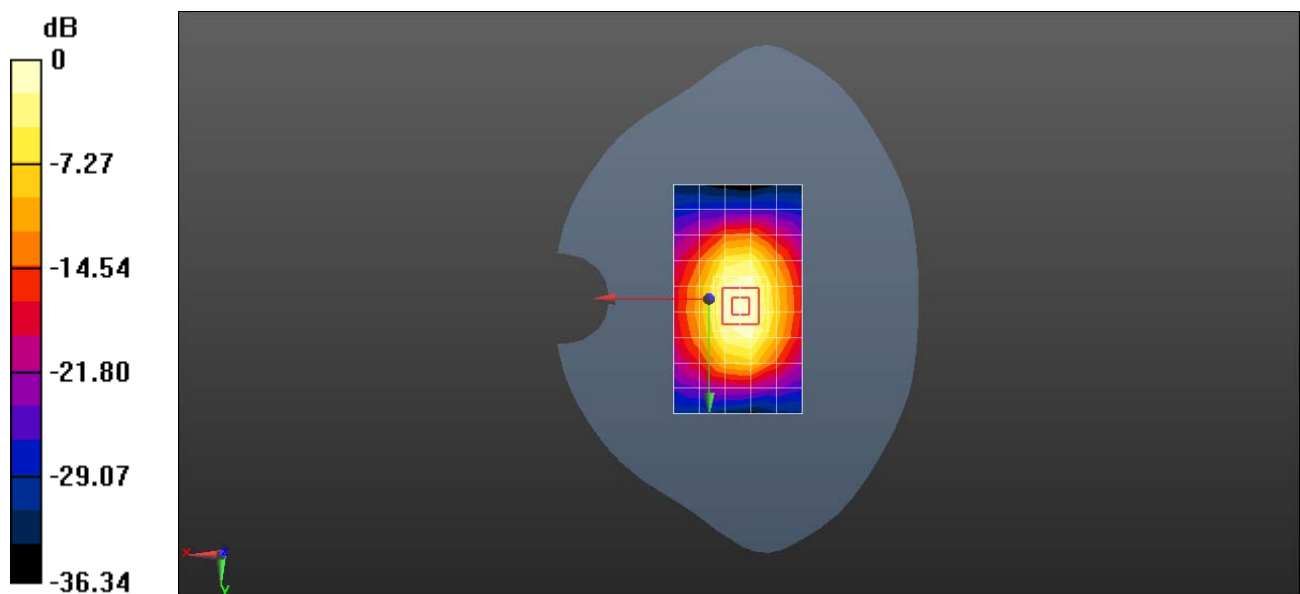
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 87.53 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 16.4 W/kg

**SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.79 W/kg**

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 9.29 W/kg = 9.68 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-ES-Head

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.365$  S/m;  $\epsilon_r = 38.931$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.58, 5.58, 5.58); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 7.89 W/kg

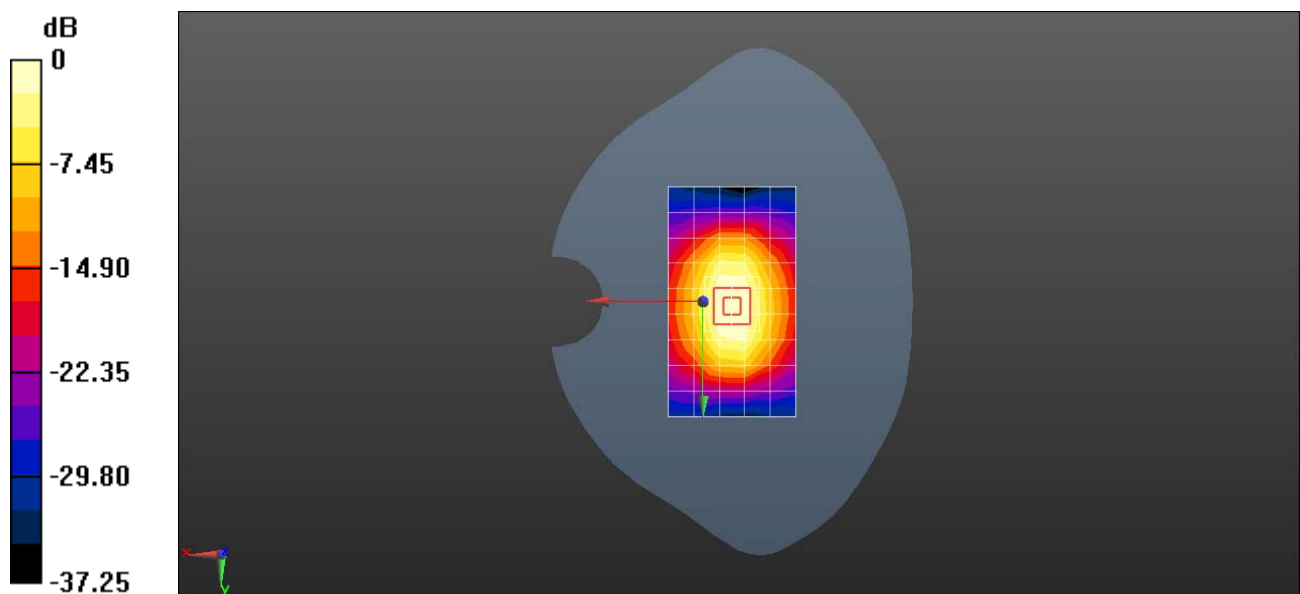
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 85.26 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 16.0 W/kg

**SAR(1 g) = 8.78 W/kg; SAR(10 g) = 4.63 W/kg**

Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 7.89 W/kg = 8.97 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-ES-Head

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.352$  S/m;  $\epsilon_r = 39.512$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.58, 5.58, 5.58); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 8.22 W/kg

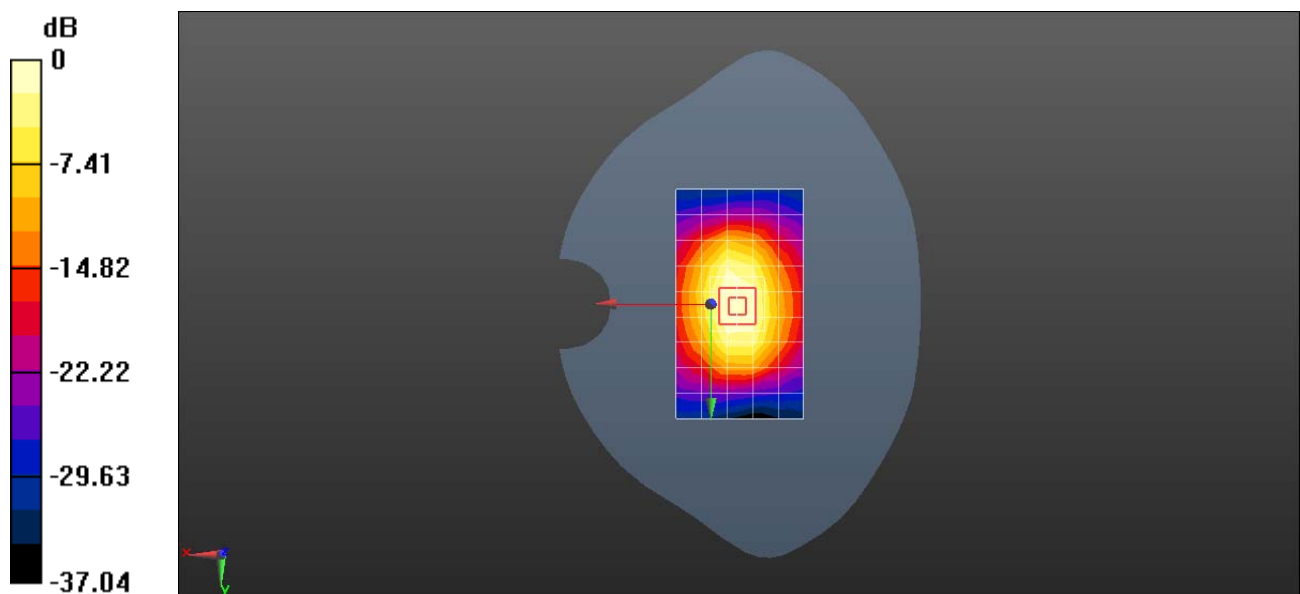
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 84.83 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 15.5 W/kg

**SAR(1 g) = 8.57 W/kg; SAR(10 g) = 4.52 W/kg**

Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 8.22 W/kg = 9.15 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-ES-Body

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.497$  S/m;  $\epsilon_r = 52.859$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.22, 5.22, 5.22); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 8.33 W/kg

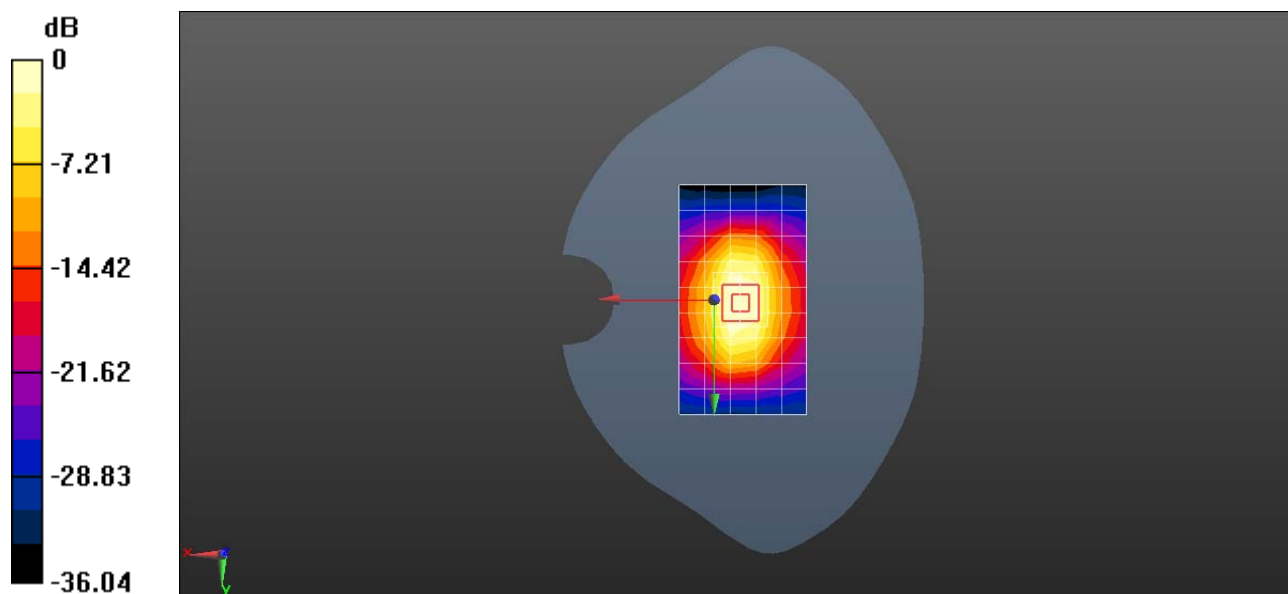
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 82.35 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 15.5 W/kg

**SAR(1 g) = 8.87 W/kg; SAR(10 g) = 4.71 W/kg**

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 8.33 W/kg = 9.21 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-ES-Body

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.49$  S/m;  $\epsilon_r = 52.544$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.22, 5.22, 5.22); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 7.87 W/kg

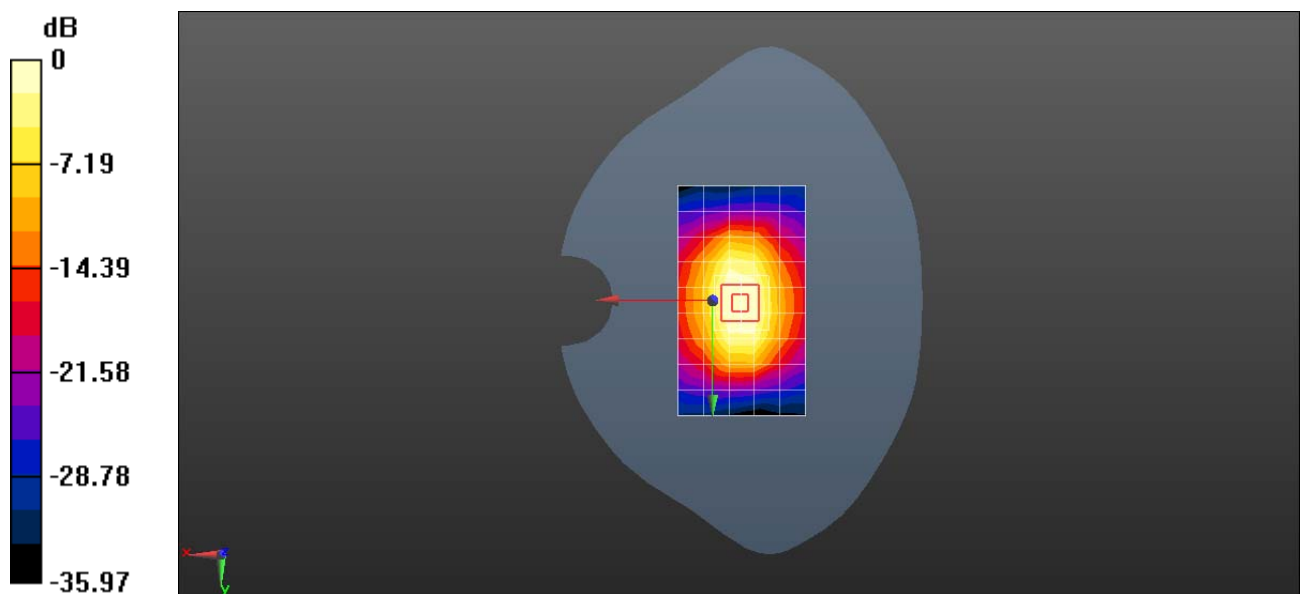
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 84.04 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 9.1 W/kg; SAR(10 g) = 4.86 W/kg**

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 7.87 W/kg = 8.96 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D1750-EX-Body

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.519$  S/m;  $\epsilon_r = 53.329$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.61, 7.61, 7.61); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 8.68 W/kg

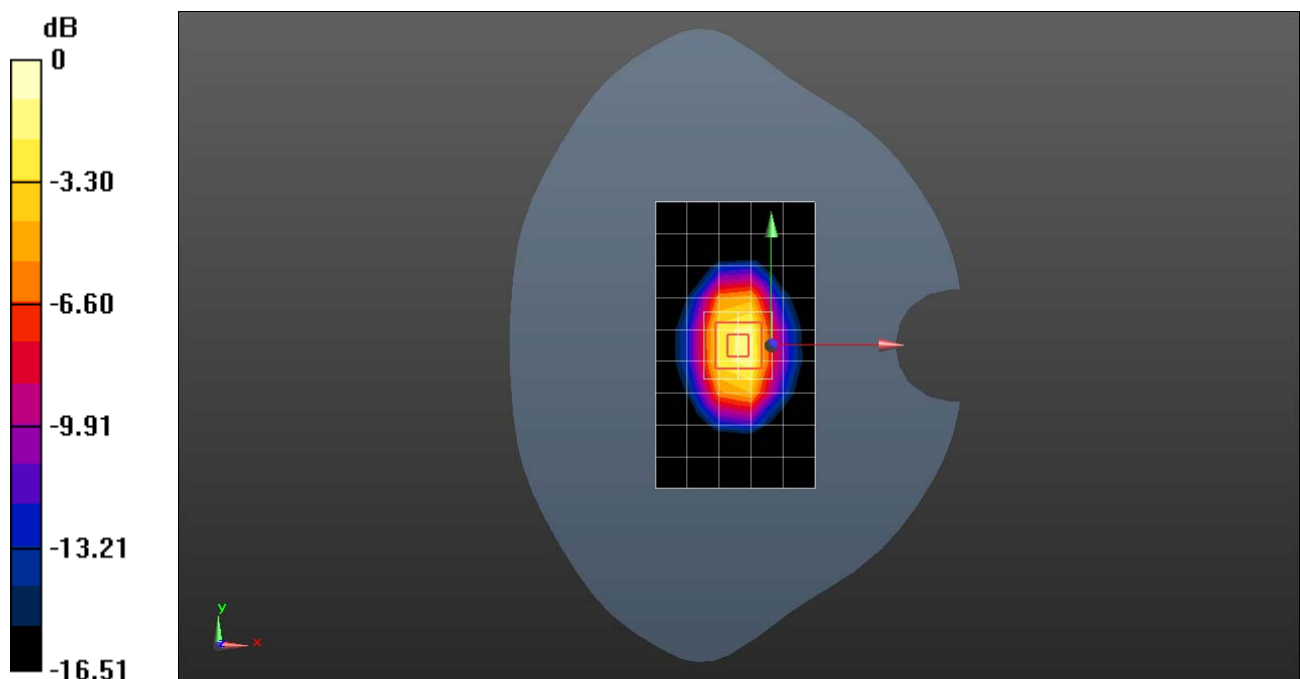
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 84.04 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 17.1 W/kg

**SAR(1 g) = 9.57 W/kg; SAR(10 g) = 5.06 W/kg**

Maximum value of SAR (measured) = 12.1 W/kg



0 dB = 12.1 W/kg = 10.83 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-EX-Body

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.509$  S/m;  $\epsilon_r = 52.025$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.61, 7.61, 7.61); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 9.17 W/kg

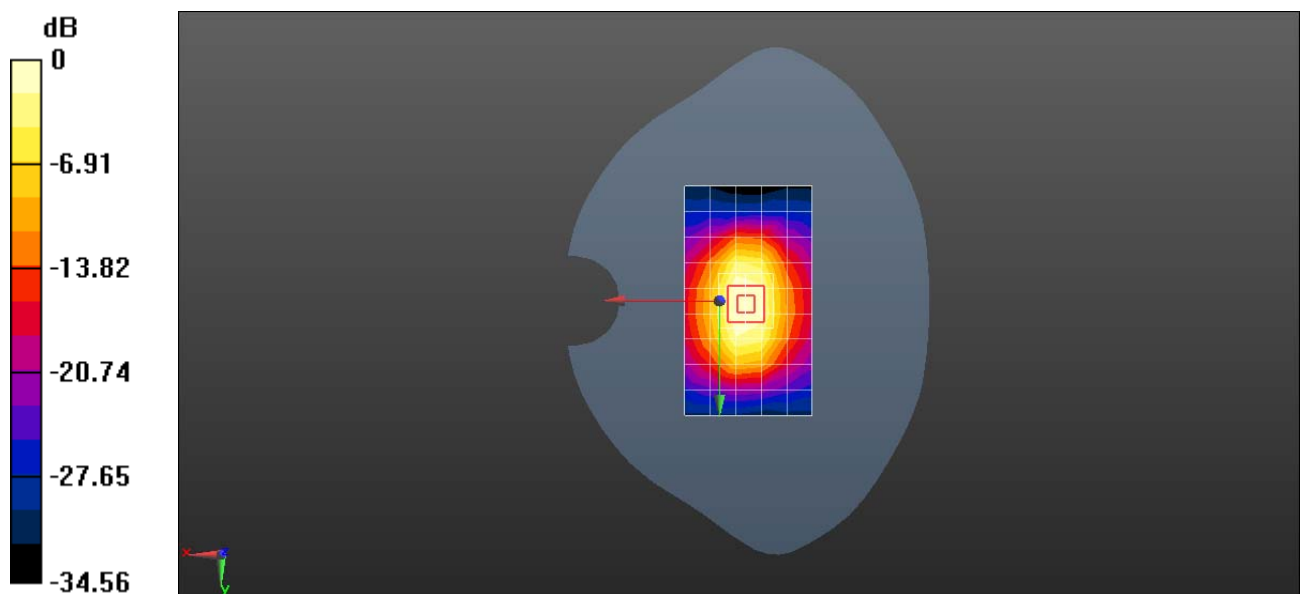
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 84.23 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5.07 W/kg**

Maximum value of SAR (measured) = 12.2 W/kg



0 dB = 9.17 W/kg = 9.62 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-ES-Head

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.409$  S/m;  $\epsilon_r = 39.032$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.33, 5.33, 5.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 8.58 W/kg

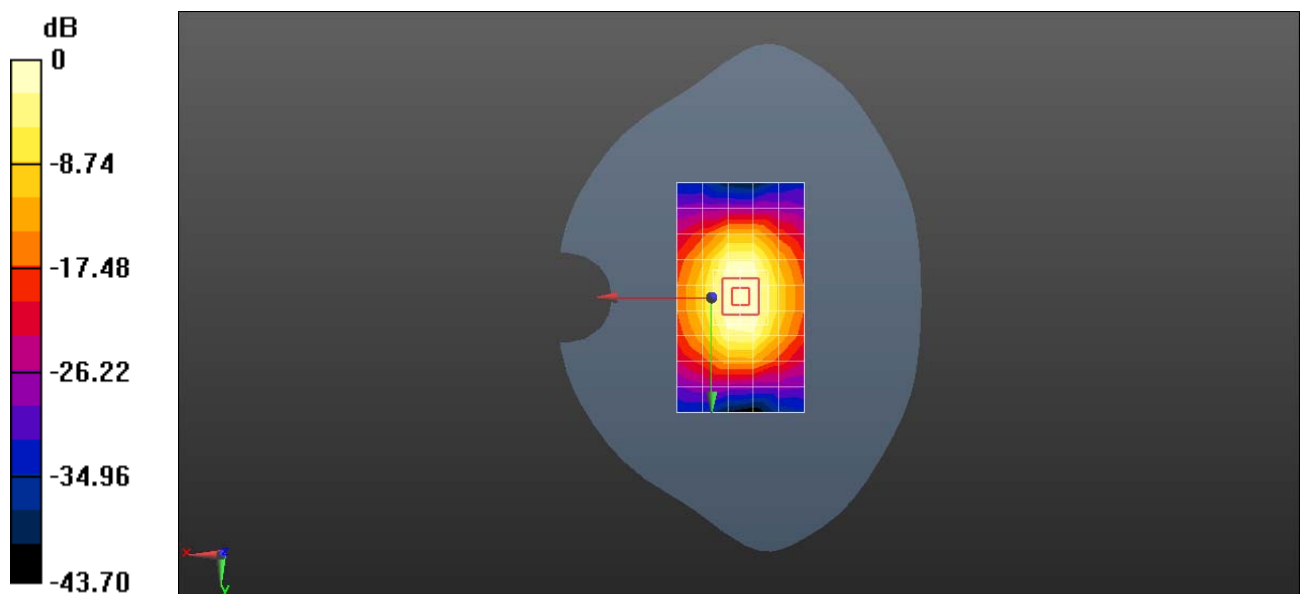
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 93.59 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 18.8 W/kg

**SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.37 W/kg**

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 8.58 W/kg = 9.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-ES-Head

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.436$  S/m;  $\epsilon_r = 38.555$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.33, 5.33, 5.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 12.7 W/kg

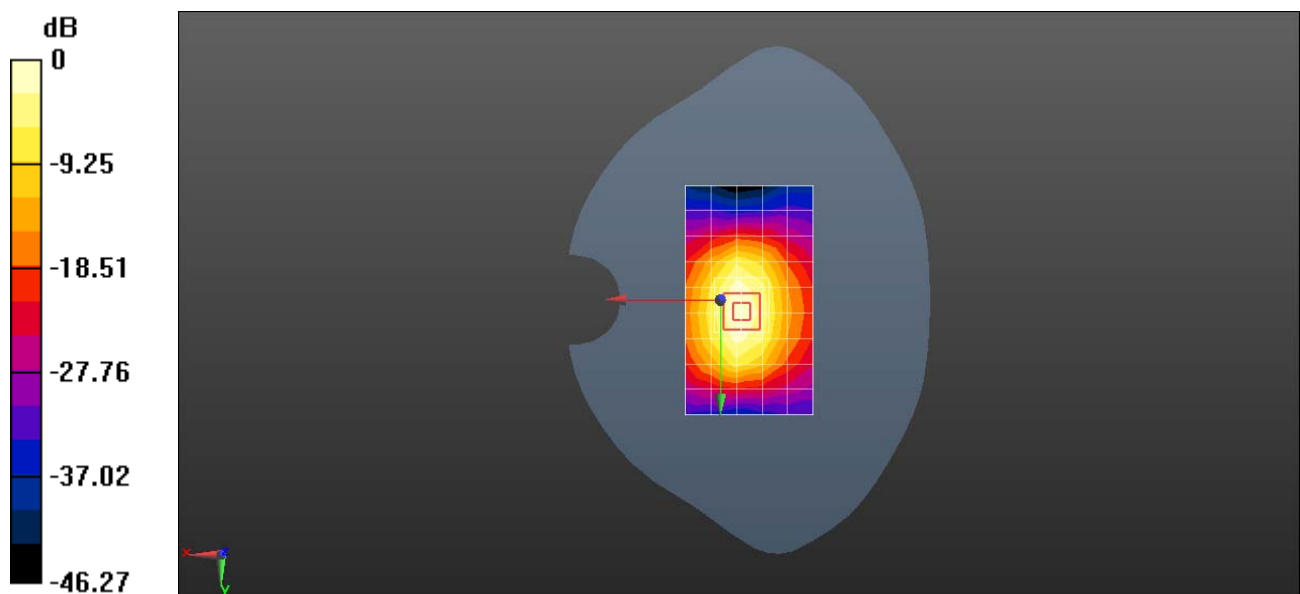
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 83.82 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 19.3 W/kg

**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.45 W/kg**

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 12.7 W/kg = 11.04 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-1900-EX-Head

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 39.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 12.0 W/kg

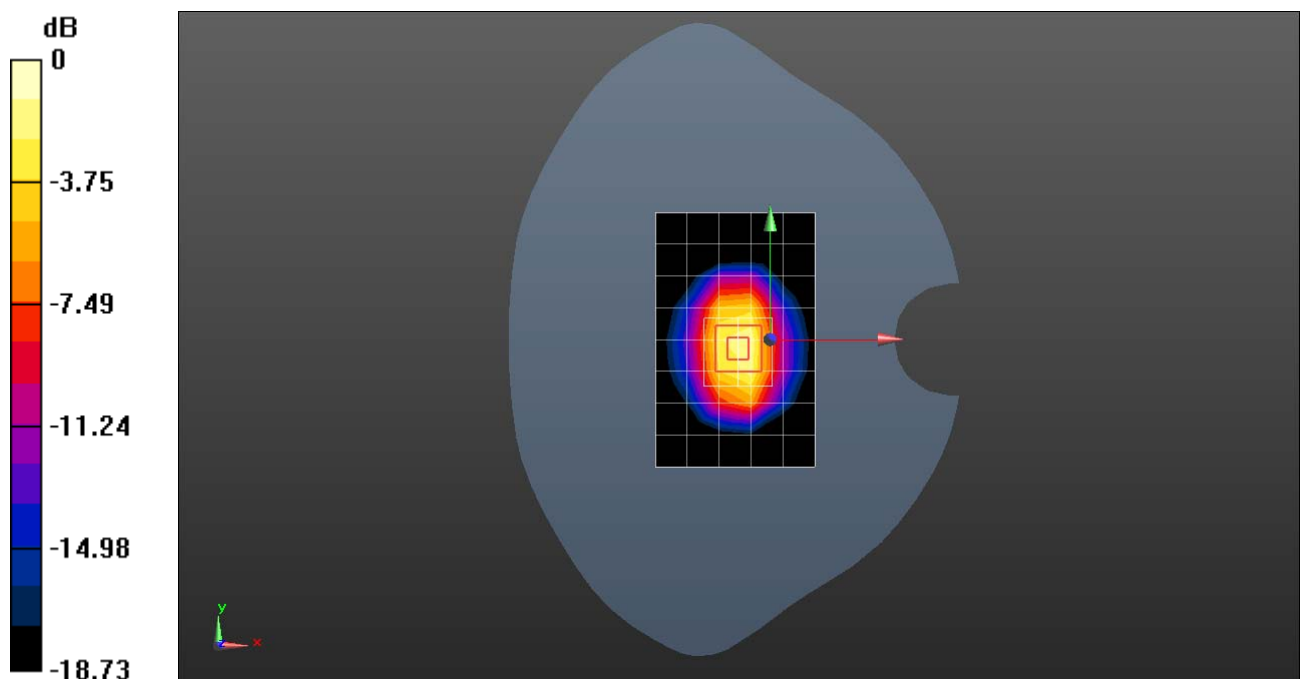
**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 89.35 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 20.0 W/kg

**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.41 W/kg**

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.18 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D1900-ES-Body

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.58$  S/m;  $\epsilon_r = 52.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 8.41 W/kg

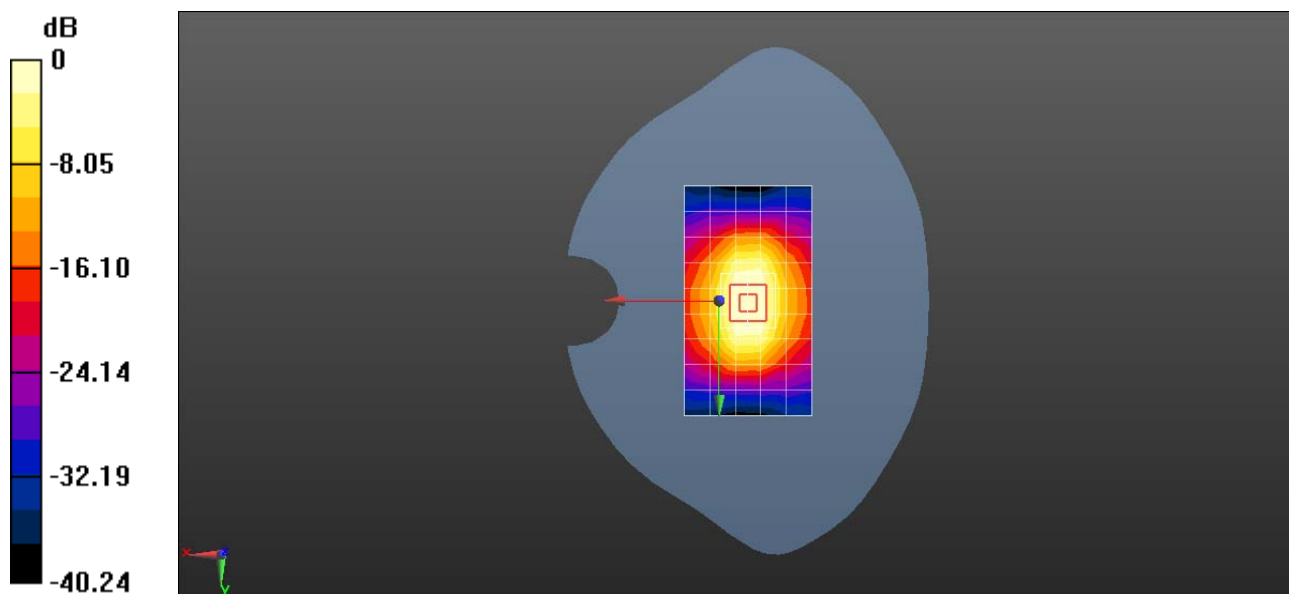
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 89.14 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.2 W/kg

**SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.55 W/kg**

Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 8.41 W/kg = 9.25 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-ES-Body

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.566$  S/m;  $\epsilon_r = 52.044$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 9.78 W/kg

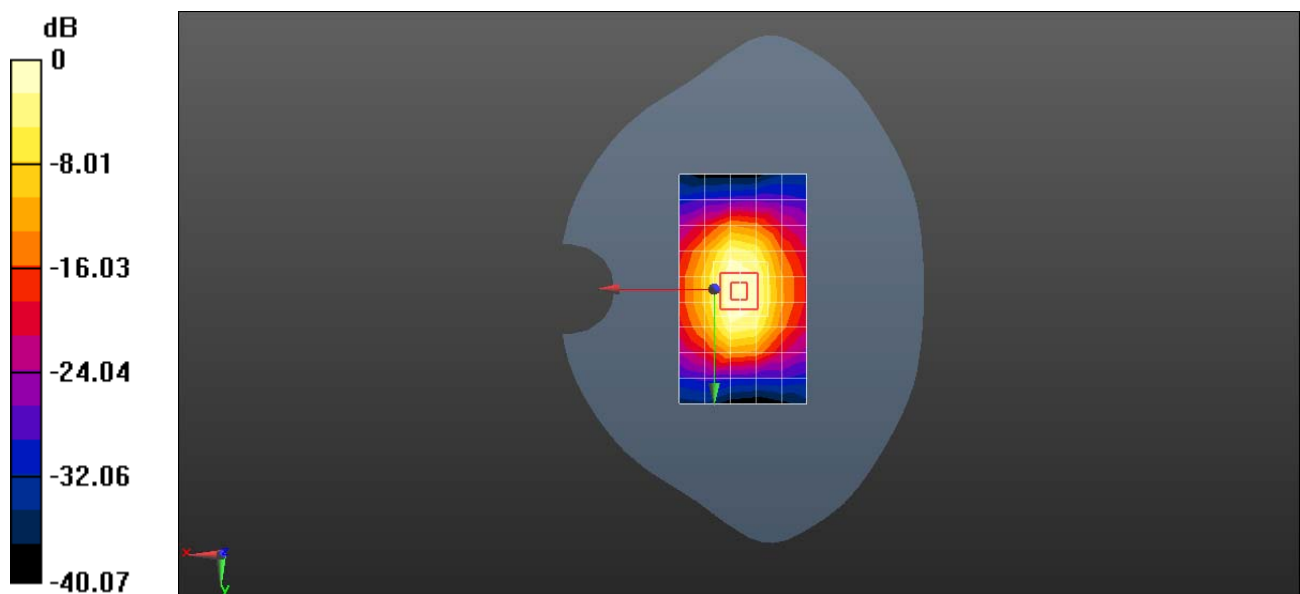
**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 86.79 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.36 W/kg**

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 9.78 W/kg = 9.90 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-1900-EX-Body

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.543$  S/m;  $\epsilon_r = 53.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.48, 7.48, 7.48); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 13.0 W/kg

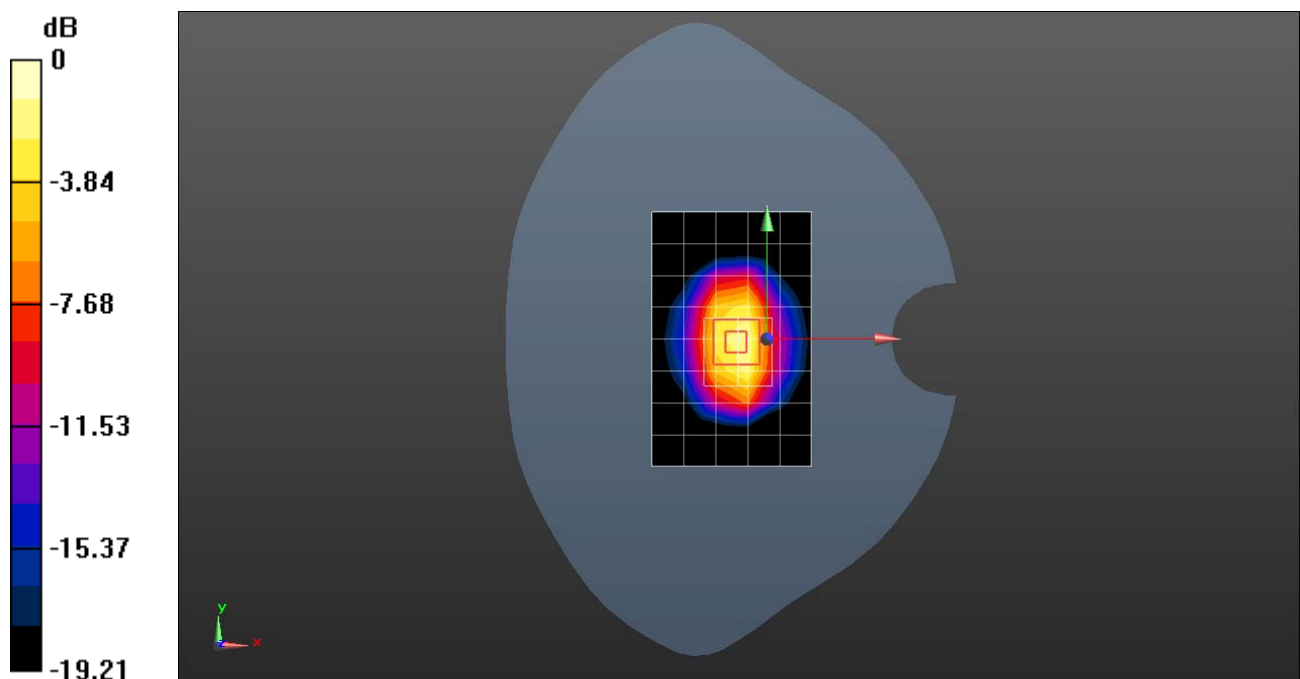
**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 86.89 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 20.0 W/kg

**SAR(1 g) = 10.9 W/kg; SAR(10 g) = 5.6 W/kg**

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.18 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-EX-Head

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.83$  S/m;  $\epsilon_r = 38.217$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(7.02, 7.02, 7.02); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 15.0 W/kg

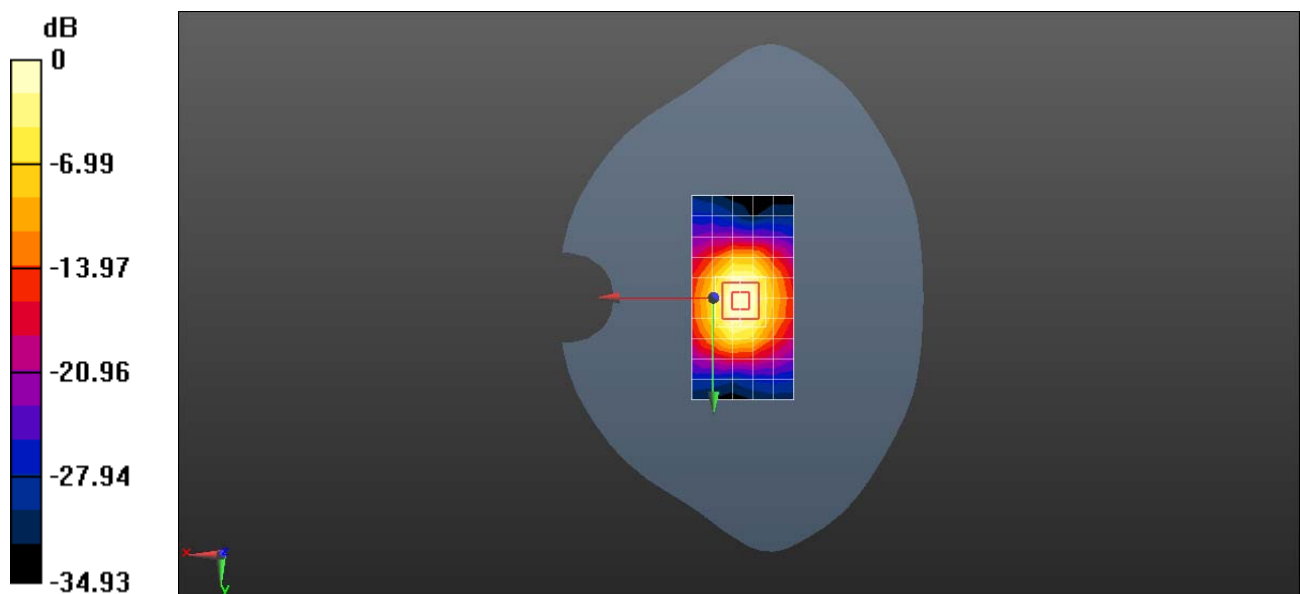
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 99.31 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 29.1 W/kg

**SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.38 W/kg**

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D2450-ES-Head

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.809$  S/m;  $\epsilon_r = 39.334$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.73, 4.73, 4.73); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 14.3 W/kg

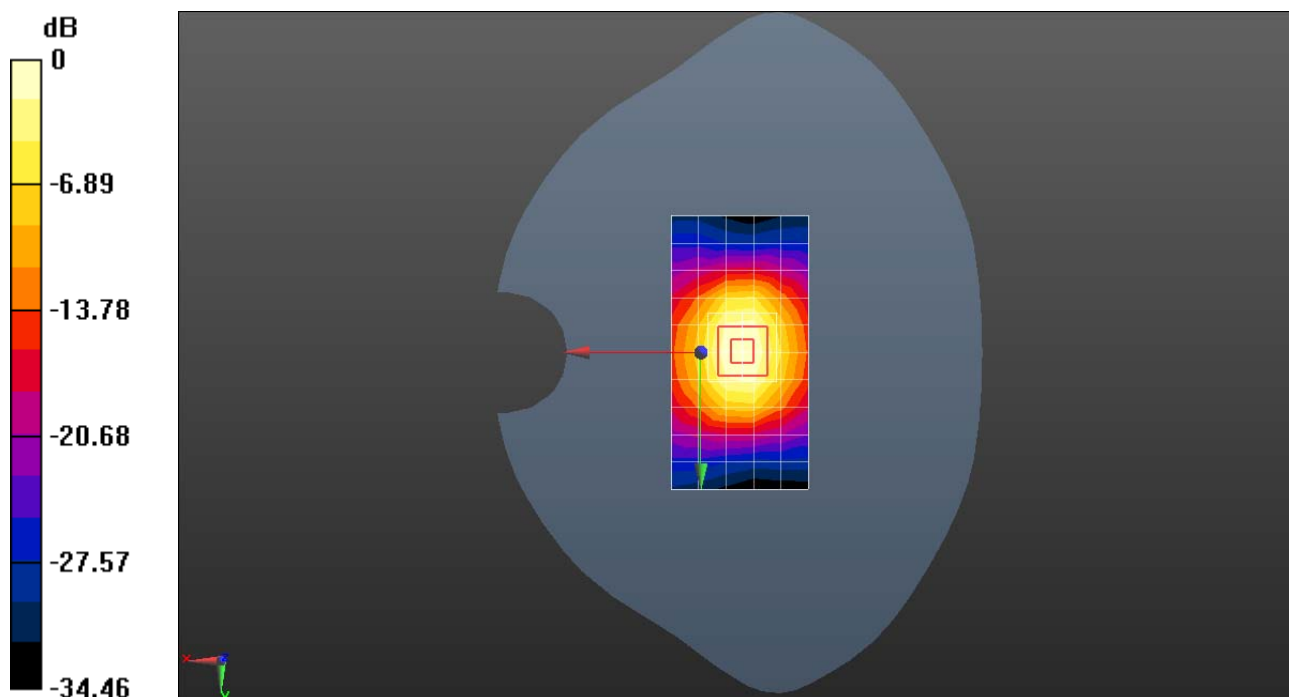
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 104.8 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 27.1 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg**

Maximum value of SAR (measured) = 17.2 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-EX-Body

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.023$  S/m;  $\epsilon_r = 52.326$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(6.99, 6.99, 6.99); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 17.9 W/kg

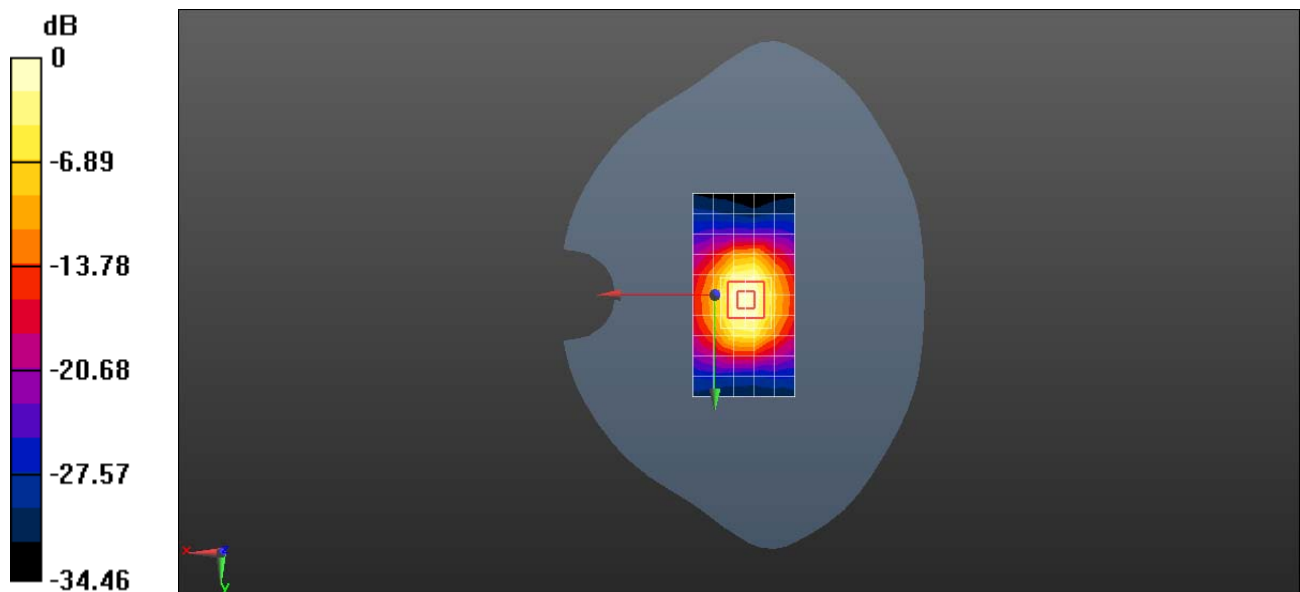
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 93.90 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 29.0 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.27 W/kg**

Maximum value of SAR (measured) = 23.0 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-EX-Head

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.989$  S/m;  $\epsilon_r = 40.535$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(6.9, 6.9, 6.9); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2016-11-22
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 19.8 W/kg

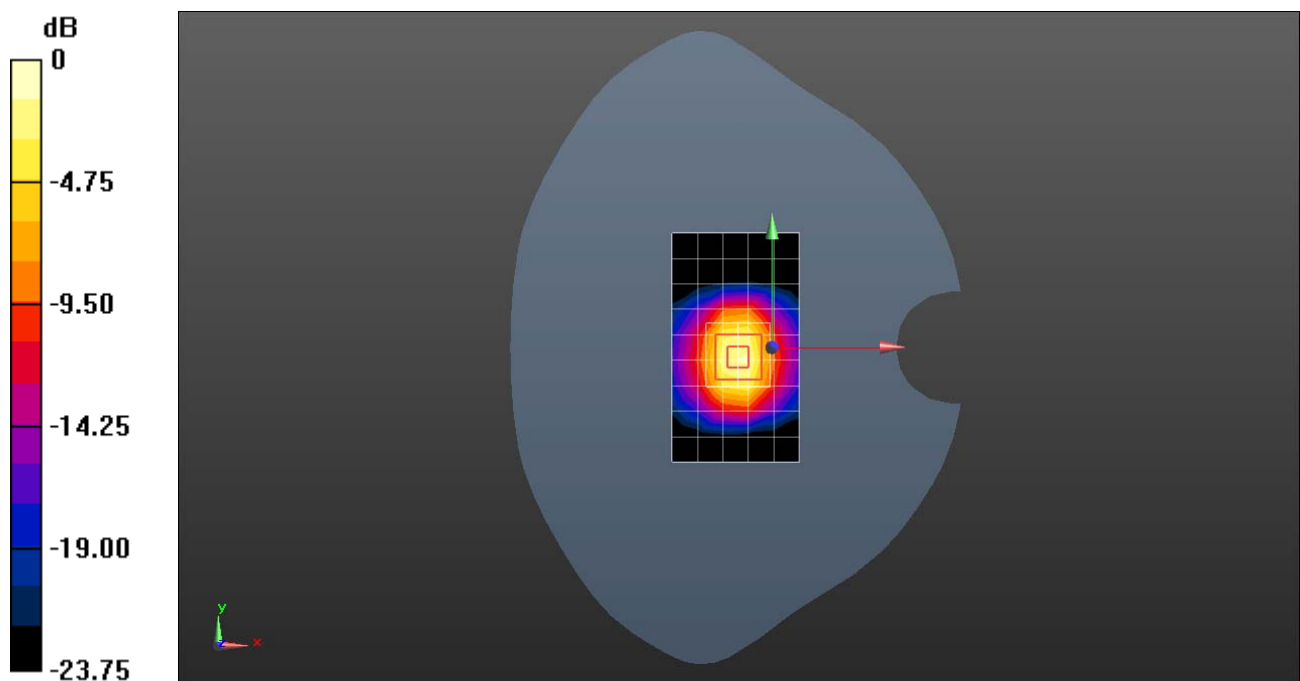
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 88.76 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.3 W/kg

**SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.59 W/kg**

Maximum value of SAR (measured) = 25.6 W/kg



0 dB = 25.6 W/kg = 14.08 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-ES-Body

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.228$  S/m;  $\epsilon_r = 51.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.31, 4.31, 4.31); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 17.8 W/kg

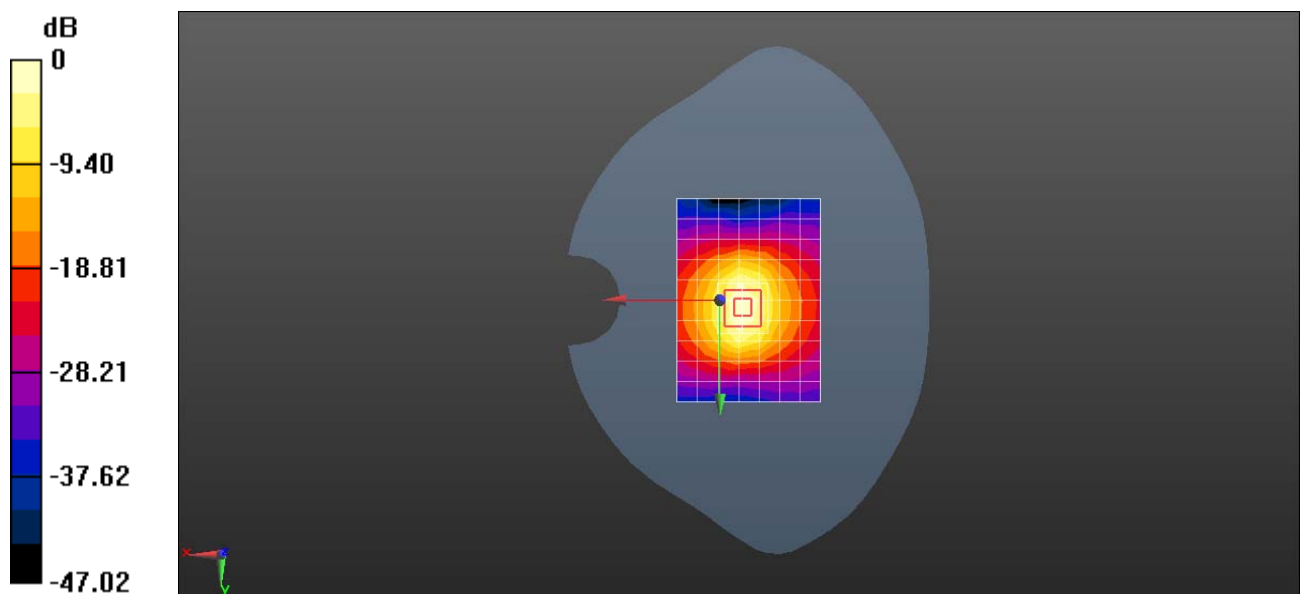
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 81.06 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 32.3 W/kg

**SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.61 W/kg**

Maximum value of SAR (measured) = 20.0 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-EX-Body

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.217$  S/m;  $\epsilon_r = 51.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(6.92, 6.92, 6.92); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 17.2 W/kg

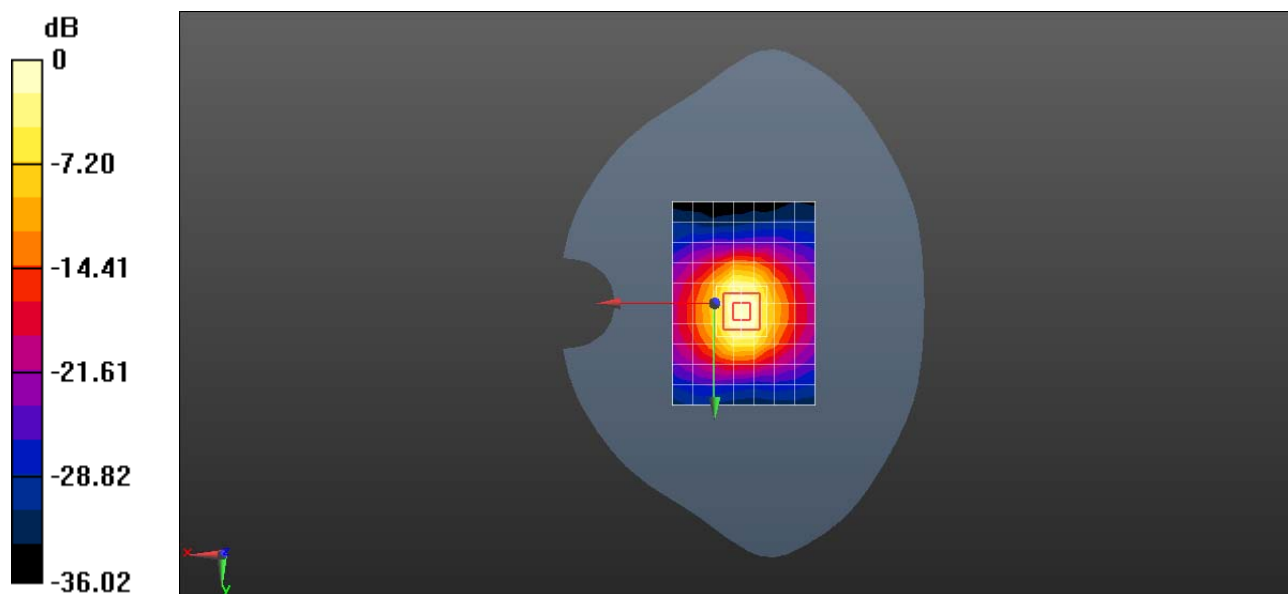
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 80.74 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 29.5 W/kg

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 5.92 W/kg**

Maximum value of SAR (measured) = 23.3 W/kg



0 dB = 17.2 W/kg = 12.36 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-EX-Body

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.205$  S/m;  $\epsilon_r = 50.669$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(6.92, 6.92, 6.92); Calibrated: 2016-7-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 17.1 W/kg

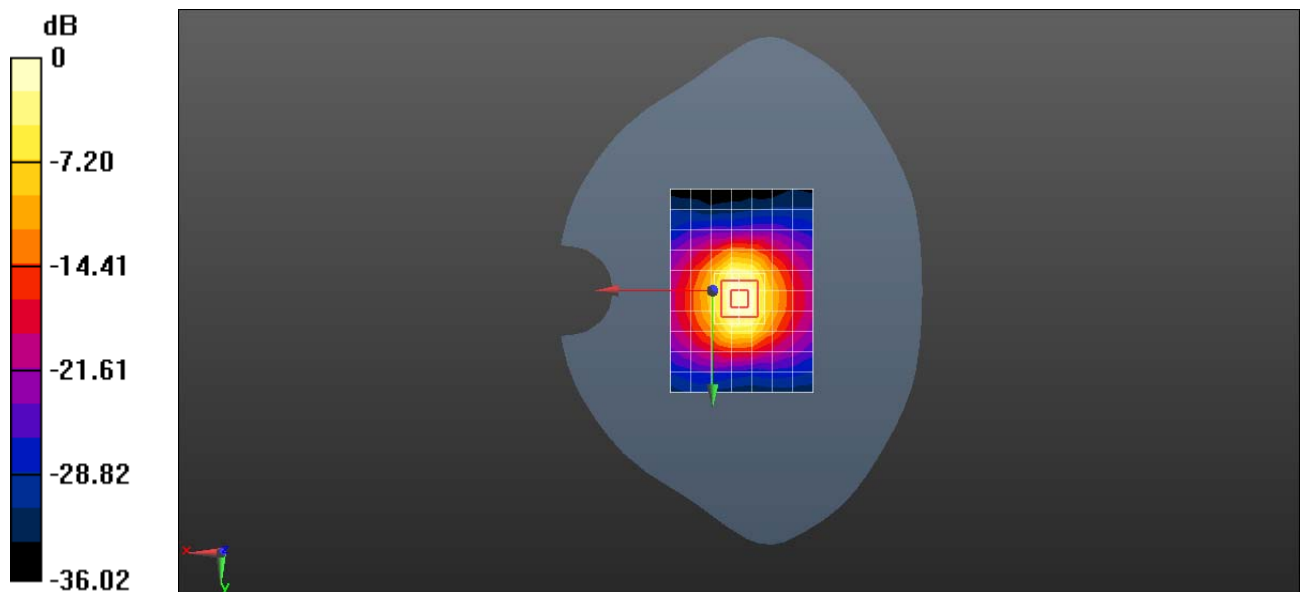
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 80.74 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 29.3 W/kg

**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 5.89 W/kg**

Maximum value of SAR (measured) = 23.2 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D2600-ES-Body

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.224$  S/m;  $\epsilon_r = 51.778$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.31, 4.31, 4.31); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 15.1 W/kg

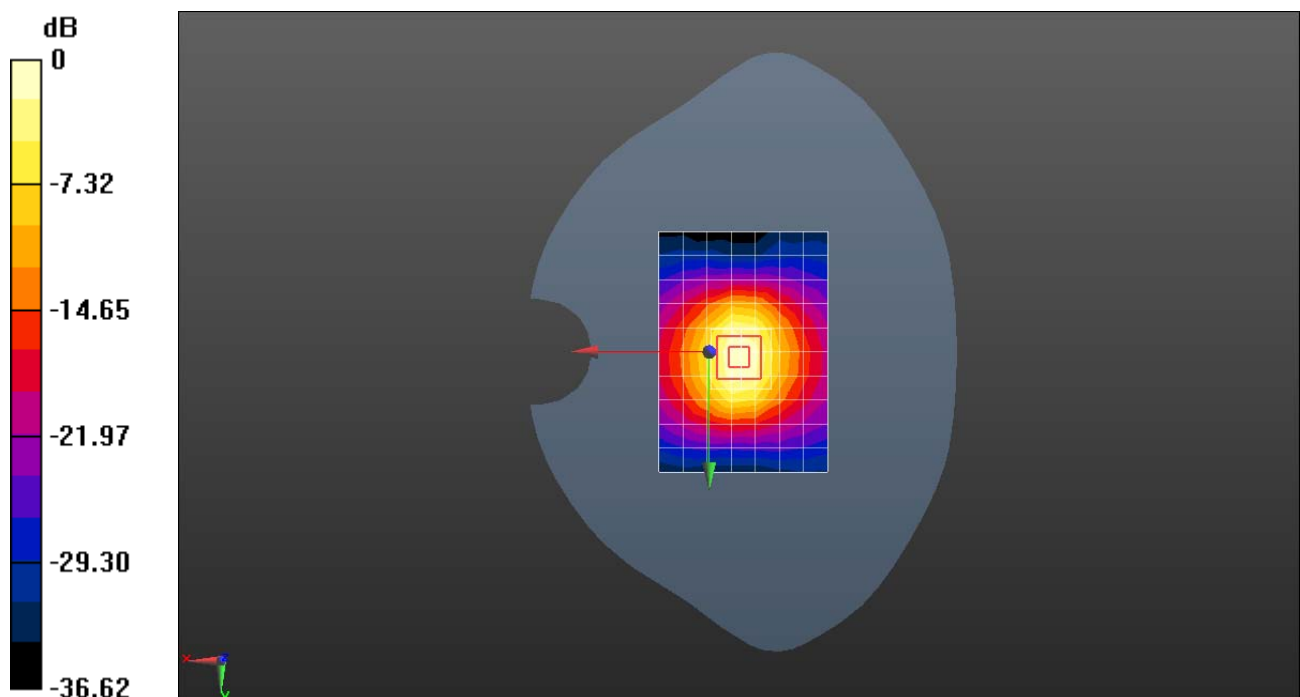
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 82.94 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 29.5 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.19 W/kg**

Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 15.1 W/kg = 11.79 dBW/kg

## **System Validation**

Per FCC KDB 865664 D02, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

a tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Table of SAR System validation summary:

FREQ. [Mhz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL POINT		PERM ( $\epsilon_r$ )	COND ( $\sigma$ )	CW VALIDATION			MOD.VALIDATION		
								SENSI- TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR
750	2016/08/23	3744	EX3DV4	750	Head	43.17	0.894	PASS	PASS	PASS	N/A	N/A	N/A
835	2016/08/15	3744	EX3DV4	835	Head	41.06	0.891	PASS	PASS	PASS	GMSK	PASS	N/A
835	2016/09/30	3168	ES3DV3	835	Head	42.72	0.940	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2016/09/30	3168	ES3DV3	1750	Head	40.13	1.370	PASS	PASS	PASS	NA	NA	N/A
1900	2016/08/17	3744	EX3DV4	1900	Head	39.66	1.412	PASS	PASS	PASS	GMSK	PASS	N/A
1900	2016/09/30	3168	ES3DV3	1900	Head	38.55	1.410	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2016/08/10	3744	EX3DV4	2450	Head	39.51	1.805	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
2600	2016/08/14	3744	EX3DV4	2600	Head	37.88	1.927	PASS	PASS	PASS	TDD	PASS	N/A
750	2016/08/24	3744	EX3DV4	750	Body	53.28	0.963	PASS	PASS	PASS	N/A	N/A	N/A
835	2016/08/27	3744	EX3DV4	835	Body	53.44	0.990	PASS	PASS	PASS	GMSK	PASS	N/A
835	2016/10/07	3168	ES3DV3	835	Body	56.00	1.002	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2016/10/07	3168	ES3DV3	1750	Body	52.46	1.440	PASS	PASS	PASS	N/A	N/A	N/A
1750	2016/08/21	3744	EX3DV4	1750	Body	53.72	1.438	PASS	PASS	PASS	N/A	N/A	N/A
1900	2016/08/18	3744	EX3DV4	1900	Body	51.98	1.517	PASS	PASS	PASS	GMSK	PASS	N/A
1900	2016/10/07	3168	ES3DV3	1900	Body	51.94	1.550	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2016/09/02	3744	EX3DV4	2450	Body	51.88	2.004	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
2600	2016/08/20	3744	EX3DV4	2600	Body	53.15	2.153	PASS	PASS	PASS	TDD	PASS	N/A
2600	2016/10/07	3168	ES3DV3	2600	Body	51.55	2.165	PASS	PASS	PASS	TDD	PASS	N/A

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.